

## MINIATURE SPECTROMETER

### Abstract of the Disclosure

A miniaturized spectrometer is adapted for placement within a body near tissue to be characterized. The spectrometer includes a light source and a plurality of light detectors. The light source generates light to illuminate the tissue. The detectors detect optical signals from the illuminated tissue and convert these optical signals to electrical signals. The miniaturized spectrometer can be disposed at the distal end of an interventional device. Optical conduits, such as fiber optic cables or strands, extending the length of the interventional device are not required when the miniature spectrometer is employed.

295RJT1002/18.356431-1

2025 RELEASE UNDER E.O. 14176